

Title (en)

METHOD AND ARCHITECTURE FOR OPTICAL NETWORKING BETWEEN SERVER AND STORAGE AREA NETWORKS

Title (de)

VERFAHREN UND ARCHITEKTUR ZUR OPTISCHEN VERNETZUNG ZWISCHEN SERVER UND SPEICHERNETZWERKEN

Title (fr)

PROCEDE ET ARCHITECTURE POUR RESEAUTAGE OPTIQUE ENTRE UN SERVEUR ET DES RESEAUX DE STOCKAGE

Publication

EP 1695517 B1 20100915 (EN)

Application

EP 04812823 A 20041203

Priority

- US 2004040386 W 20041203
- US 74256203 A 20031219

Abstract (en)

[origin: WO2005062578A1] A method and system for routing high-speed data to and from SANS (Storage Area Networks and Server Area Networks) via optical burst-switched (OBS) networks. OBS network components, including edge nodes and switching nodes, are coupled between SAN islands. In one embodiment, the OBS network comprises a photonic burst-switched (PBS) network. Under one scheme, a PBS edge node and SAN gateway are co-located at the interface to the SAN, while a plurality of PBS switching nodes are deployed between the PBS edge nodes. Under another scheme, PBS switching/edge nodes are co-located at respective SANs. This scheme employs an external gateway protocol (EGP) for routing data via selected route segments. Data going to and received from a SAN is packaged as Fibre Channel Frames. Data transmitted via the PBS network is converted into PBS frames having encapsulated Fibre Channel Frames. The schemes also support interfaces with legacy networks, such as LANs and WANs.

IPC 8 full level

H04L 29/06 (2006.01); **H04L 29/08** (2006.01); **H04Q 11/00** (2006.01)

CPC (source: EP US)

H04L 9/40 (2022.05 - US); **H04L 67/1097** (2013.01 - EP US); **H04L 69/329** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2005062578 A1 20050707; AT E481807 T1 20101015; CN 1890943 A 20070103; CN 1890943 B 20111214; DE 602004029186 D1 20101028; EP 1695517 A1 20060830; EP 1695517 B1 20100915; US 2005175341 A1 20050811; US 7634582 B2 20091215

DOCDB simple family (application)

US 2004040386 W 20041203; AT 04812823 T 20041203; CN 200480036871 A 20041203; DE 602004029186 T 20041203; EP 04812823 A 20041203; US 74256203 A 20031219